Reclamation Building Seismic Safety Program

Definition and Uses of Estimated Seismic Risk

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"Extreme Risk" Justification to take action increases as risk increases

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ALOL = 1 x 10 - 2 Immediate Risk Reduction Is Warranted

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"Hi Risk" Justification to take action increases as risk increases

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ALOL = 1 x 10 - 3 Long Term Risk Reduction Is Warranted

("Long Term" is generally defined as 3 to 7 years)

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"Moderate Risk" Justification to take action increases as risk increases

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ALOL = 1 x 10 - 4 Seismic Risk Reduction Projects Are Recommended

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"Low Risk"

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Due to the uncertainties inherent in the Risk Assessment, this level of risk is estimated as 10 times lower than the 1 x 10 -3 level at which long term risk reduction actions are warranted. This conservatism is prudent as any recommendation for risk reduction actions will be Peer Reviewed by independent experts.

Examples

Risk	Level	Example Summary Statement for the Evaluation Transmittal Letter
4 x 10 - 2	Extreme	Recommend Immediate Risk Reduction Actions
8.2 x 10 - 3	Hi	The annualized loss-of-life is estimated to be 8.2 x 10 - 3 which is about 8 times higher than the level at which risk reduction actions are warranted.
1.3 x 10 - 4	Mod	This level of risk is sufficient to justify risk reduction measures.
2.5 x 10 - 5	Low	The annualized loss-of-life is estimated to be 2.5 x 10 - 5 which is well below the level at which risk reduction actions are warranted.